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UTILITY	Attorney Docket No. MTB04US
PATENT APPLICATION	First Inventor Kia Silverbrook
TRANSMITTAL	Ink Jet Printhead with Low Mass Displacement
	Title Nozzle
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.
APPLICATION ELEMENTS  See MPEP chapter 600 concerning utility patent application contents	ASSISTANT Commissioner for Patents Box Patent Application Washington, DC 20231
FT F T	7. CD-ROM or CD-R in duplicate, large table or
1. (Submit an original and a duplicate for fee processing)	Computer Program (Appendix)
2. Applicant claims small entity status. See 37 CFR 1.27.	<ol> <li>Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</li> </ol>
3. X Specification [Total Pages 55]	a. Computer Readable Form (CRF)
- Descriptive title of the invention	b. Specification Sequence Listing on:
<ul> <li>Cross Reference to Related Applications</li> <li>Statement Regarding Fed sponsored R &amp; D</li> </ul>	i. ☐ CD-ROM or CD-R (2 copies); or
<ul> <li>Reference to sequence listing, a table,</li> </ul>	ii.□ paper
or a computer program listing appendix - Background of the Invention	c. Statements verifying identity of above copies
<ul> <li>Brief Summary of the Invention</li> <li>Brief Description of the Drawings (if filed)</li> </ul>	ACCOMPANYING APPLICATION PARTS
- Detailed Description	9. X Assignment Papers (cover sheet & document(s))
<ul> <li>Claim(s)</li> <li>Abstract of the Disclosure</li> </ul>	37 CFR 3.73(b) Statement Power of
	(when there is an assignee) — Attorney
4. X Drawing(s) (35 U.S.C. 113) [ Total Sheets 66 ]	11. English Translation Document (if applicable)
5. Oath or Declaration [Total Pages 2]	12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS
a. Newly executed (original or copy)	13. Preliminary Amendment
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 17 completed)	Return Receipt Postcard (MPEP 503)
i. DELETION OF INVENTOR(S)	(Should be specifically itemized)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
1.63(d)(2) and 1.33(b).	16 Other:
6. Application Data Sheet. See 37 CFR 1.76	
17. If a CONTINUING APPLICATION, check appropriate box, and su or in an Application Data Sheet under 37 CFR 1.76:	upply the requisite information below and in a preliminary amendment,
Continuation Divisional X Continuation-in-part (CIF	of prior application No.: 10 / 302,274
Prior application information: Examiner	Group / Art Unit:
	the prior application, from which an oath or declaration is supplied under
Box 5b, is considered a part of the disclosure of the accompanying control The incorporation can only be relied upon when a portion has been inad	Inuation or divisional application and is hereby incorporated by reference. vertently omitted from the submitted application parts.
18. CORRESPON	DENCE ADDRESS
Customer Number or Bar Code Label [Insert Customer No. or Attach	or Correspondence address below bar code (abbel here)
Name KIA SILVERBROOK	
393 Darling Street,	
Address	
City Balmain	State NSW Zip Code 2041
Country Australia T	elephone +61-2-9818-6633 Fax +61-2-9555-7762
KIA SII VERBROOK	
Name (PrintlType)	Registration No. (Attorney/Agent)
<b>Signature</b>	Date December 3, 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

SUBMITTED BY

Name (Print/Type)

Kia Silverbrook

(\$) 1,422.0	)(
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С	mplete if Known
Application Number	
Filing Date	
First Named Inventor	Kia Silverbrook
Examiner Name	
Art Unit	
Attomory Dealest No.	MTROALIS

	1 /	ALLOTT	iey Do	cketi	10. [WTB0405	
METHOD OF PAYMENT (check all that apply)				FE	E CALCULATION (continued)	
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Deposit	1052	50	2052		Surcharge - late provisional filing fee or	$\vdash$
Account Name					cover sheet	
The Director is authorized to: (check all that apply)		130	1053		Non-English specification	$\vdash$
Charge fee(s) indicated below Credit any overpayments	1812 2,				For filing a request for ex parte reexamination	$\vdash$
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
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to the above-identified deposit account.					Examiner action	$\vdash$
FEE CALCULATION		110	2251		Extension for reply within first month	<b></b>
1. BASIC FILING FEE		420	2252		Extension for reply within second month	$\vdash$
Large Entity Small Entity Fee Fee Fee Pee Description Fee Paid		950	2253		Extension for reply within third month	$\vdash$
Code (\$) Code (\$)	1254 1,	,480	2254	740	Extension for reply within fourth month	$\vdash$
1001 770 2001 385 Utility filing fee 770.00	1255 2,	,010	2255	1,005	Extension for reply within fifth month	<del>                                     </del>
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451 1,	,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 770.00	1452	110	2452	55	Petition to revive - unavoidable	
	1453 1,	,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,	,330	2501	665	Utility issue fee (or reissue)	
Extra Claims below Fee Paid	1502	480	2502	240	Design issue fee	
Total Claims 54 -20** = 34 x 18 = 612	1503	640	2503	320	Plant issue fee	
Independent 3 - 3** = X = 0	1460	130	1460	130	Petitions to the Commissioner	
	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity   Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806	180	Submission of Information Disclosure Stmt	
Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	examined (37 CFR 1.129(b))  Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	7	900	1802	900	, , ,	
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**or number previously paid, if greater; For Reissues, see above	*Reduce			iling Fe	ee Paid SUBTOTAL (3) (\$) 40.00	,
or normality paid, if greater, Fur nerssues, see above					σσσισικά (σ) (φ) 40.00	

Signature Date December 3, 2003 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Registration No.

(Attorney/Agent)



## SILVERBROOK RESEARCH Pty Ltd

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December 4, 2003

Commissioner of Patents and Trademarks Washington DC 20231 USA

Dear Sir

53 New United States Patent Applications Assignee: Silverbrook Research Pty Ltd

This letter accompanies 53 new patent applications.

53 bank drafts for the total amount of US\$51,520 are enclosed to cover filing and assignment fees for each of the 53 applications. Also attached is a list giving details of each application.

We look forward to receiving filing receipts in due course.

If you need to contact us in relation to the applications, please email my assistant, Kia Silverbrook at Kia Silverbrook@silverbrookresearch.com or by fax to +61 2 9555 7762.

Yours faithfully

Kia Silverbrook

Silverbrook Research Pty Ltd

	DOCKET NO ZE017		INVENTORS	MAMOUNT	
	7F017	2	THE PROPERTY OF THE PARTY OF TH	US\$	PARENT NO
2		Printhead assembly incorporating one or more printhead modules	Kia Silverbrook, Tobin Allen King	850.00	ART108
	ZE018	Printhead assembly incorporating a channel member	Kia Silverbrook, Tobin Allen King	850.00	ART108
3	ZE019	Printhead assembly incorporating an elastomeric feed member	Kia Silverbrook, Tobin Allen King	850.00	ART108
4	ZE020	Printhead assembly incorporating micromoldings	Kia Silverbrook, Tobin Allen King	850.00	. ART108
5	BAL70	A camera for printing manipulated images	Kia Silverbrook, Paul Lapstun, Simon Robert Walmsley	998.00	ART51
6	BAL71	A camera for pirnting on media provided on print roll	Kia Silverbrook, Paul Lapstun, Simon Robert	1,142.00	ART51
7	BAL72	A camera for printing manipulated images on media	Walmsley Kia Silverbrook, Paul Lapstun, Simon Robert Walmsley	1,070.00	ART51
8	BAL73	A camera and controlling processing system	Walmsley Kia Silverbrook, Paul Lapstun, Simon Robert Walmsley	1,070.00	ART51
9	ZE009	A method of fabricating a fluid ejection device using a planarizing step	Kia Silverbrook	810.00	IJ46 Div. 2
10	ZE010	A micro-electromechanical fluid ejection device with control logic circuitry	Kia Silverbrook	810.00	IJ46 Div. 2
11	ZE011	A printhead configuration incorporating a nozzle arrangement layout	Kia Silverbrook	810.00	IJ46 Div. 2
12	ZE012	A method of fabricating a micro-electromechanical device having a laminated actuator	Kia Silverbrook	810.00	IJ46 Div. 2
13		An image capture and processing device for a print on demand digital camera system	Kia Silverbrook	810.00	IR18
14		A printhead assembly for a print on demand digital camera system	Kia Silverbrook	810.00	IR18
15		A printhead re-capping assembly for a print on demand digital camera system	Kia Silverbrook	810.00	IR18
16	MTB05	Ink Jet printhead with circular cross section chamber	Kia Silverbrook	1,044.00	MJ40
17	МТВ07	Ink jet printhead with amorphous ceramic chamber	Kia Silverbrook	1,116.00	MJ40
18	ZF132	Composite support beam for pirnthead assembly	Kia Silverbrook	810.00	MJ44
19	ZF133	Thermal expansion relief for printhead assembly	Kia Silverbrook	810.00	MJ44
20		Thermal expansion compensation for printhead assembly	Kia Silverbrook	810.00	MJ44
21		A micro-electromechanical fluid ejection device having a chamber that is volumetrically altered for fluid ejection	Kia Silverbrook	810.00	MJ95
22		A micro-electromechanical fluid ejection device having a nozzle guard	Kia Silverbrook	810.00	MJ95
23 N		Thermal ink jet printhead with short heater to nozzle aperture distance	Kia Silverbrook	1,422.00	MJT001
24 N		Thermal ink jet printhead with low resistance electrodes for heaters	Kia Silverbrook	1,422.00	MJT001
25 N		Thermal ink jet printhead with heater elements supported by electrodes	Kia Silverbrook	1,422.00	MJT001

	T		Kia Silverbrook, Angust		
26	MTB02	Very high efficiency thermal ink jet printhead	John North, Gregory John McAvov	1,502.00	MJT001
27	МТВ03	Low voltage thermal ink jet printhead	Kia Silverbrook	1,422.00	MJT001
28	MTB04	Inkj t printhead with low mass displacement nozzle	Kia Silverbrook	1,422.00	MJT001
29	МТВ06	Thermal ink jet printhead with bubble collapse point close to nozzle aperture	Kia Silverbrook	1,422.00	MJT001
30	MTB14	Heat dissipation within thermal ink jet printhead	Kia Silverbrook	1,422.00	MJT001
31	ZF184	Ink Distribution assembly	Kia Silverbrook	810.00	PAK12
32	ZG185	Printhead chassis assembly	Kia Silverbrook	810.00	PAK12
33	ZG186	Laminated distribution structure	Kia Silverbrook	810.00	PAK12
34	ZG112	Chips with wafer scale caps formed by molding	Kia Silverbrook	810.00	WSM01
35	ZG113	Two part mold for wafer scale caps	Kia Silverbrook	810.00	WSM01
36	ZG114	Wafer scale caps located by molding	Kia Silverbrook	810.00	WSM01
37	ZG115	Molded wafer scale cap array	Kia Silverbrook	810.00	WSM01
38	ZG116	Placement tool for wafer scale caps	Kia Silverbrook	810.00	WSM01
39	ZG117	Mold making method for wafer scale caps	Kia Silverbrook	810.00	WSM01
40	ZG118	Chip with molded cap array	Kia Silverbrook	810.00	WSM01
41	ZG119	Molded wafer scale cap	Kia Silverbrook	810.00	WSM01
42	ZF117	Thermoelastic inkjet actuator with heat conductive pathways	Kia Silverbrook, Gregory John McAvoy	850.00	YU185
43		An ink jet printhead chip having an actuator mechanisms located about ejection ports	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
44		A method of fabricating an ink jet printhead chip having actuator mechanisms located about ejection ports	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
45		A micro-electromechanical fluid ejection device having actuator mechanisms located about ejection ports	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
46	ZE008	A micro-electromechanical fluid ejection device having nozzle chambers with diverging walls	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
47	20.07	Page binder with air cushion and non-contact adhesive applicator	Kia Silverbrook	850.00	ZF107
48		Page binder with adhesive applicator for gluing traling edge of pages	Kia Silverbrook	850.00	ZF107
49	ZG189	Page binder with two part adhesive applicator	Kia Silverbrook	850.00	ZF107
50		Inkjet printhead with ink supply passage to nozzle etched from opposing sides of wafer	Kia Silverbrook	1,170.00	ZF121

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MTB09	Inkjet printhead with non-uniform width ink supply passage to nozzle	Kia Silverbrook	1,112.00	ZF121
MTB10	Inkjet printhead with ink chamber inlet etched into wafer	Kia Silverbrook	1,256.00	ZF121
MTB11	Inkjet printhead with ink supply passage formed from both sides of the wafer by overlapping etches	Kia Silverbrook	1,256.00	ZF121
	÷		51,520.00	
	MTB10	MTB10 Inkjet printhead with ink chamber inlet etched into wafer	MTB10 Inkjet printhead with ink chamber inlet etched into wafer Kia Silverbrook  MTB11 Inkjet printhead with ink supply passage formed from the silverbrook in the si	passage to nozzle  MTB10 Inkjet printhead with ink chamber inlet etched into wafer Kia Silverbrook  Inkjet printhead with ink supply passage formed from both sides of the wafer by overlapping etches  Kia Silverbrook  1,256.00

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